

# Calculating Asphalt /CRS Cost Price Adjustment

## ASPHALT COST PRICE ADJUSTMENT IS APPLICABLE TO ALL PROJECTS WITH HMA.

This provision allows adjustments to be applied when the current cost of liquid asphalt exceeds +/- 5% of the Estimated base cost.

### WHAT ARE THE QUALIFYING ITEMS?

HMA CL. \_\_\_\_ IN. PG \_\_\_\_ [5766, 5767, 5768, 5769]  
HMA FOR APPROACH CL. \_\_\_\_ IN. PG \_\_\_\_ [5872, 5873, 5874]  
HMA FOR PRELEVELING CL. \_\_\_\_ IN. PG \_\_\_\_ [5716, 5717, 5718]  
HMA FOR PAVEMENT REPAIR CL. \_\_\_\_ IN. PG \_\_\_\_ [5738, 5739, 5740]  
COMMERCIAL HMA [5875]

### WHAT DO I PUT IN THE ESTIMATE FOR THIS ITEM?

- Use either the Asphalt Cost Adjustment, or CRS Cost Adjustment worksheet depending on whether HMA or emulsified asphalt is being placed in the project.
- Fill-in the green cells with the requested information.
- Use the result in the pink cell for you estimate entry for either the HMA or Emulsion Cost Adjustment item.

### ASPHALT COST ADJUSTMENT WORKSHEET

[Asphalt \(GSP 5-04.5.OPT2.GR5\)](#)

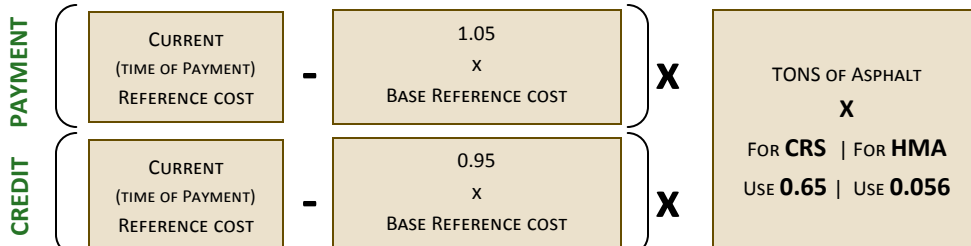
Project Number	Date of Calculation	<a href="#">Insert the current Asphalt Binder Reference Cost Index number for your area from here.</a>	Insert the AD date	Insert the end construction date	Insert the total quantity of asphalt eligible for escalation per the Special Provision in tons	Adjustment (Std Item 5837)
						\$ -

### CRS—COST ADJUSTMENT WORKSHEET

[CRS-2P \(GSP 5-02.5.OPT3.GR5\)](#)

Project Number	Date of ABRCI value (typically the first or 16th of the month)	<a href="#">Insert the current Asphalt Binder Reference Cost Index number for your area from here.</a>	Insert the AD date (or the bid opening date if the contract is in the AD process)	Insert the end construction date	Insert the total quantity of CRS-2P in tons eligible for escalation per the Special Provision	Adjustment (Std Item 5294)
						\$ -

### HOW DO I PAY BINDER COST ADJUSTMENT ITEMS?



## Washington State Department of Transportation Asphalt Binder Reference Cost

2011 - 2013		EASTERN	WESTERN
JANUARY 2011	1 - 15	\$475.00	\$455.00
	16 - 31	\$475.00	\$455.00
FEBRUARY 2011	1 - 15	\$475.00	\$455.00
	16 - 28	\$475.00	\$460.00
MARCH 2011	1 - 15	\$487.50	\$466.25
	16 - 31	\$490.00	\$480.00
APRIL 2011	1 - 15	\$516.67	\$487.50
	16 - 30	\$525.00	\$490.00
MAY 2011	1 - 15	\$537.50	\$515.00
	16 - 31	\$550.00	\$537.50
JUNE 2011	1 - 15	\$576.25	\$537.50
	16 - 30	\$590.00	\$537.50

### ASPHALT BINDER REFERENCE

- Published 2 times Monthly.
- Use either East or West—dependent on project Location
- Base cost is that which immediately precedes Bid Opening.
- Does not guarantee Full compensation for changes in the cost of binder

*\* No Adjustment will be made if Reference cost is within 5% of Base.*

# Calculating Asphalt Cost Price Adjustment



## WHY DO WE HAVE ASPHALT COST PRICE ADJUSTMENT?

Contractor uncertainty incites inflated bids to cover unknown conditions.

The cost adjustment provisions provide a method to minimize risk to the contractor on work where volatile market conditions cause cost on vulnerable items of work to fluctuate unpredictably. These Adjustment provisions are needed in order to reduce this risk to the contractors, encouraging a continuation of the competitive bidding environment.

The current specifications have been developed in combination with the paving industry and other state DOT's,

## ASPHALT COST PRICE ADJUSTMENT IS APPLICABLE TO ALL PROJECTS WITH HMA.

This provision allows adjustments to be applied when the current cost of liquid asphalt exceeds +/- 5% of the Estimated base cost. This adjustment does not guarantee full compensation to the contractor, but does significantly reduce their risk.

## WHAT ARE THE QUALIFYING ITEMS?

### HMA

HMA CL. \_\_\_ IN. PG \_\_\_ [5766, 5767, 5768, 5769]

HMA FOR APPROACH CL. \_\_\_ IN. PG \_\_\_ [5872, 5873, 5874]

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COMMERCIAL HMA [5875]

### CRS—BINDER

ASPHALT EMULSION CRS-1 [5290]

ASPHALT EMULSION CRS-2 [5295]

ASPHALT EMULSION CRS-2P [5296]

\* For non-standard HMA and Emulsified Asphalt, please consult the Construction Office

## WHAT DO I PUT IN THE ESTIMATE FOR THIS ITEM?

- Use either the Asphalt Cost Adjustment, or Emulsion Cost Adjustment worksheet depending on whether HMA or Emulsified Asphalt is being placed in the project.

These worksheets are available on-line at:

HMA: [HMA Price Adjustment Calculation Spreadsheet](#)

CRS (Emulsion): [CRS-2P Price Adjustment Calculation Spreadsheet](#)

- Fill-in the green cells with the requested information.
- Use the result in the pink cell for you estimate entry for either the HMA or Emulsion Cost Adjustment item.

(See worksheet examples next page)

### ASSOCIATED GSP's & AMENDMENTS

#### HMA

[5-04.5.OPT2.GR5](#)

#### EMULSION

[5-02.5.OPT3.GR5](#)

## CALCULATING THE ADJUSTMENT FOR YOUR ESTIMATE

The Asphalt Cost Adjustment worksheets are very similar, although HMA adjustment uses the 'Date of Calculation' in the determination and the binder content factors of each are different.

Use these worksheets to update the adjustment items frequently. The Base cost for the item will be based on the last Binder Reference Cost that is published preceding Bid Opening.

### ASPHALT COST ADJUSTMENT WORKSHEET

Project Number <small>Value not used in calc. — Info Only</small>	Date of Calculation	<a href="#">Insert the current Asphalt Binder Reference Cost Index number for your area from here.</a>	Insert the AD date	Insert the end construction date	Insert the total quantity of asphalt eligible for escalation per the Special Provision in tons	Adjustment (Std Item 5837)
						\$ -

### ASPHALT EMULSION—COST ADJUSTMENT WORKSHEET

Project Number <small>Value not used in calc. — Info Only</small>	Date of ABRCI value (typically the first or 16th of the month)	<a href="#">Insert the current Asphalt Binder Reference Cost Index number for your area from here.</a>	Insert the AD date (or the bid opening date if the contract is in the AD process)	Insert the end construction date	Insert the total quantity of CRS-2P in tons eligible for escalation per the Special Provision	Adjustment (Std Item 5294)
						\$ -

**Washington State Department of Transportation  
Asphalt Binder Reference Cost**

2011 - 2013		EASTERN	WESTERN
JANUARY 2011	1 - 15	\$475.00	\$455.00
	16 - 31	\$475.00	\$455.00
FEBRUARY 2011	1 - 15	\$475.00	\$455.00
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	16 - 31	\$550.00	\$537.50
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	16 - 30	\$590.00	\$537.50

**ASPHALT BINDER REFERENCE**

- Published 2 times Monthly.
- Use either East or West—dependent on project Location
- Base cost is that which immediately precedes Bid Opening.

\* No Adjustment will be made if Reference cost is within 5% of Base.

GET CURRENT BINDER REFERENCE COST AT:  
<http://www.wsdot.wa.gov/Business/Construction/>

## HOW DO I PAY BINDER COST ADJUSTMENT ITEMS?

CREDIT

CURRENT  
(TIME OF PAYMENT)  
REFERENCE COST

-

1.05  
X  
BASE REFERENCE COST

X

TONS OF ASPHALT  
X  
FOR CRS | FOR HMA  
USE 0.65 | USE 0.056

CREDIT

CURRENT  
(TIME OF PAYMENT)  
REFERENCE COST

-

0.95  
X  
BASE REFERENCE COST

X

TONS OF ASPHALT  
X  
FOR CRS | FOR HMA  
USE 0.65 | USE 0.056

Adjustments will be made based on the most current reference cost for Western or Eastern Washington as posted on the Binder Reference website prior to the progress estimate cutoff date.

*For example:*

*progress estimates on the 5th of the month would use the last reference cost posted for the second half of the previous month.*

*Progress estimates on the 20th of the month would use the reference cost posted for the first half of the current month (1st through the 15th).*

A no-cost change order is needed to document this change.

The Above calculation is used in determining adjustments. However a

worksheet is available from the Construction Office that performs the Adjustment calculation based on the current reference Cost and tons of Asphalt placed.



### GET CALCULATION WORKSHEET

<http://www.wsdot.wa.gov/NR/rdonlyres/7A453E77-39A2-49B0-AC51-B1BBE6D8759F/0/>